BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements and Asphalting to roads at Yelahanka new town 5th pahse in chowdeshwari ward no -02 of yelahanka sub division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead (I No-19.14,P No-143)								
	For Asphalt Road, cut portion	Cum							
	5th phase								
	5th main		2	510.00	1.10	0.15	168.30		
	cross Road		1	70.00	1.80	0.15	18.90		
							187.20	63.94	**11969.57**
	Basic Rate Rs.=	41.00							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Add 6% A.W Rs. =	2.46							
	Total Rate Rs. =	**63.94**							
2	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision (I No-20.5,P No-153)								
	For Asphalt Road, cut portion	Cum							
	5th phase								
	5th main		2	510.00	1.10	0.15	168.30		
	cross Road		1	70.00	1.80	0.10	12.60		
							180.90	1994.92	**360881.03**
	Basic Rate Rs.=	1882.00							
	Add 6% A.W Rs. =	112.92							
	Total Rate Rs. =	**1994.92**							
3	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	For Asphalt Road, cut portion	Cum							
	5th phase								
	5th main		2	510.00	1.10	0.23	258.06		
	cross Road		1	70.00	1.80	0.23	28.98		
							287.04	2001.28	**574447.41**
	Basic Rate Rs.=	1888.00							
	Add 6% A.W Rs. =	113.28							
	Total Rate Rs. =	**2001.28**							
4	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	For Asphalt Road, cut portion	Sqm							
	5th phase								
	5th main		2	510.00	1.10		1122.00		
	cross Road		1	70.00	1.80		126.00		
							1248.00	28.62	**35717.76**
	Basic Rate Rs.=	27.00							
	Add 6% A.W Rs. =	1.62							
	Total Rate Rs. =	**28.62**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
5	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	For Asphalt Road, cut portion	Cum							
	5th phase								
	5th main		2	510.00	1.10	0.05	56.10		
	cross Road		1	70.00	1.80	0.05	6.30		
							62.40	6597.44	**411680.26**
	Basic Rate Rs.=	6224.00							
	Add 6% A.W Rs. =	373.44							
	Total Rate Rs. =	**6597.44**							
6	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	For Asphalt Road	Sqm							
	5th phase								
	5th main		1	510.00	6.50		3315.00		
	cross Road		1	70.00	6.50		455.00		
							3770.00	12.72	**47954.40**
	Basic Rate Rs.=	12.00							
	Add 6% A.W Rs. =	0.72							
	Total Rate Rs. =	**12.72**							
7	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	For Asphalt Road	Cum							
	5th phase								
	5th main		1	510.00	6.50	0.04	132.60		
	cross Road		1	70.00	6.50	0.04	18.20		
							150.80	7753.90	**1169288.12**
	Basic Rate Rs.=	7315.00							
	Add 6% A.W Rs. =	438.90							
	Total Rate Rs. =	**7753.90**							
8	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2 5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	For Asphalt Road	Sqm							
	5th phase								
	5th main		2.5	510.00	0.10		127.50		
	cross Road		2.5	70.00	0.10		17.50		
							145.00	454.74	**65937.30**
	Basic Rate Rs.=	429.00							
	Add 6% A.W Rs. =	25.74							
	Total Rate Rs. =	**454.74**							
							Sub Total 1 Rs.		**2677875.84**
	Add GST @ 12%								**321345.10**

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							Sub Total 2 Rs.		2999220.94
	Miscellaneous & Rounding off								779.06
								Total Rs.	3000000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 02
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Administrative Approval

Accorded For Rs.30.00 lakhs.
Head of A/C P-3726
CER NO :181 Dt:27.03.2020

TA CE (YNK)

Technical Sanction

Accorded For Rs.30.00 lakhs
Head of A/C P-3726.
CER NO :339 Dt:27.03.2020

TA CE (YNK)

5TH PHASE

KPTCL

Yelahanka 5th Phase, Nagarjuna Apartments...

L-510m

Cross rd L-70m

Sandhya P

G K Naidu school

BBMP

Centum Electroni Limit

Navata Transport

Om Shiva Devasthana (Temple)

5th Main road

YSL Electronics

Srishti Institute of Art, Design and Technology

Pets at Home

SLK Softwa Pvt. Ltd

1st Main Rd

Yelahanka 5th Phase BBMP Park

Paying Guest Accomodation

Yelahanka 5th Phase

Cargill/Provim

Shiva Mandir Rd

BBMP PARK

2nd Cross Rd

Vishal Mega Mart

5th Cross Rd

Satellite

Theater

Google

CLIENT: BRUHAT BANGALORE MAHANAGARA PALIKE	CONSULTANT:- Silicon Consulting Engineers #S1317, 4th CROSS BEL 2nd STAGE BHARATH NAGAR BANGALORE 560 091 E-mail: siliconcivilengineers@gmail.com	Assitante Engineer	Assitante Executive Engineer	Executive Engineer	Improvements to roads and drains at Yelahanka new town 5th phase main and cross roads in Chowdeshwari ward no 02 of Yelahanka sub Division.	Date / Dwg no: / Rev: R0